## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

## 1.-15. (Cancelled)

- 16. (New) A method for decreasing neuronal synaptic transmission in a mammalian subject in need thereof, the method comprising contacting said neuron with an amount of an inhibitor of protein kinase M zeta ( $PKM\zeta$ ) that is effective to decrease synaptic transmission in said mammalian neuron, and wherein the synaptic transmission comprises long-term potentiation (LTP).
- 17. (New) The method of claim 16, wherein the neuron is a brain neuron or a spinal cord neuron.
- 18. (New) The method of claim 16, wherein the contacting of said neuron with the inhibitor of PKM $\zeta$  is at the outer surface of said neuron, followed by the entry of said PKM $\zeta$  inhibitor into the cell.
- 19. (New) The method of claim 18, wherein the inhibitor of PKMζ is chelerythrine or a myristoylated pseudosubstrate peptide.
  - 20. (New) The method of claim 19, wherein the inhibitor of PKMζ is chelerythrine.
- 21. (New) The method of claim 19, wherein the myristoylated pseudosubstrate peptide comprises the sequence of SEQ ID NO: 4.

22. (New) The method of claim 16, wherein the subject in need thereof is experiencing
traumatic stress, a pain syndrome, a phobia, or epilepsy.